

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Overall Expectation #1:

- Read, represent, compare, and order whole numbers to 1000, and use concrete materials to represent fractions and money amounts to \$10

Spring 2006

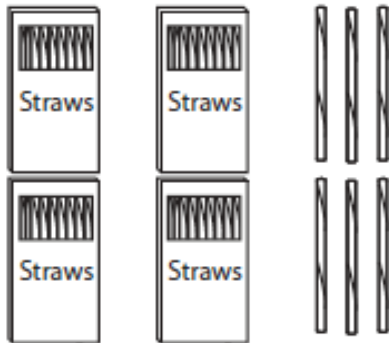
- 2** Britta uses estimation to solve the following problem.

$$\begin{array}{r} 82 \\ 28 \\ + 91 \\ \hline \end{array}$$

Which is closest to the sum?

- ☐ $80 + 20 + 80$
- ☐ $80 + 20 + 90$
- ☐ $80 + 30 + 90$ *
- ☐ $80 + 30 + 100$

- 18** The students in Ms. Hyde's class separate straws into boxes of 100. The model below shows how many boxes they make and the number of leftover straws.



What number is represented by the model shown?

- ☐ 46
- ☐ 64
- ☐ 406 *
- ☐ 460

- 4** Nicholas and Valerie are counting money in math class. Nicholas has the coins shown below.



Valerie uses different coins to equal the amount of money Nicholas has.

Which could be the coins Valerie uses?

☐



☐



☐



☐



GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

- 10** Ryan is given the following problem to solve.


“There are 30 maple trees on a farm. Half the trees have been tapped for sap. What is the total number of trees that have been tapped for sap?”

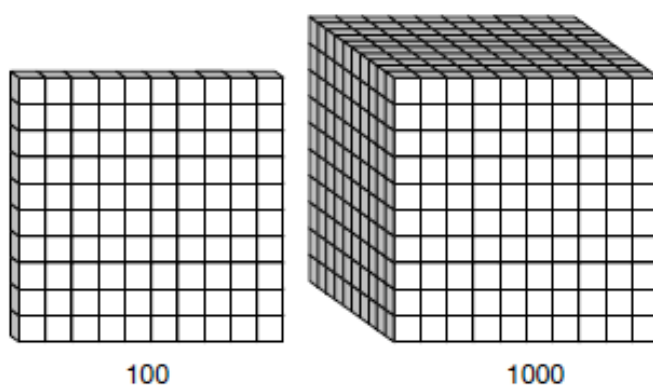
Ryan gets an answer of 18 trees. Is his answer correct?

Spring 2007

- 22** Todd has some quarters, one dime and one nickel. The total value of the coins is \$3.40. What is the total number of quarters Todd has?

- ☐ 11
- ☐ 12
- ☐ 13
- ☐ 14

- 23** In each of the models below, each  represents 1.



Exactly how many hundreds are in one thousand?

- ☐ 1
- ☐ 10
- ☐ 100
- ☐ 1000

- 8** Rafid has a group of 10 coins with a total value of \$5. There are three different kinds of coins in his group.

What could be the coins in Rafid's group?

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Spring 2008

18 Consider the coins below.



Which of the following is equal to this amount of money?

- ☐ 1 toonie, 1 loonie, 3 quarters, 3 pennies
- ☐ 1 toonie, 16 dimes, 1 nickel, 3 pennies
- ☐ 3 loonies, 1 quarter, 3 dimes, 3 pennies
- ☐ 3 loonies, 6 dimes, 2 nickels, 3 pennies

33 What does the digit 8 represent in the number 480?

- ☐ 8 ones
- ☐ 8 tens
- ☐ 80 tens
- ☐ 80 hundreds

2 The school has 37 red skipping ropes and 45 blue skipping ropes.

Which number below is closest to the total number of skipping ropes the school has?

- ☐ 75
- ☐ 80
- ☐ 85
- ☐ 90

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Spring 2009

18 Which number is equal to 7 hundreds, 13 tens and 6 ones?

- ☐ 637
- ☐ 736
- ☐ 836
- ☐ 7136

8 Ethan saves 11 quarters.

He wants to buy a book that costs \$5.25.

How many more quarters does Ethan need to save to buy the book?

Justify your answer.

Ethan needs to save _____ more quarters.

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Spring 2010

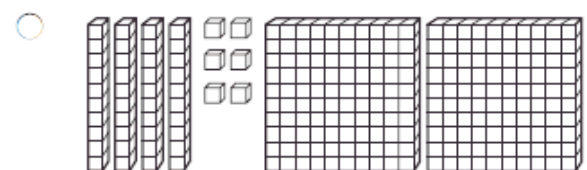
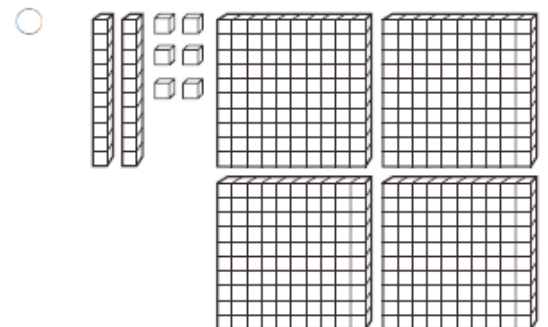
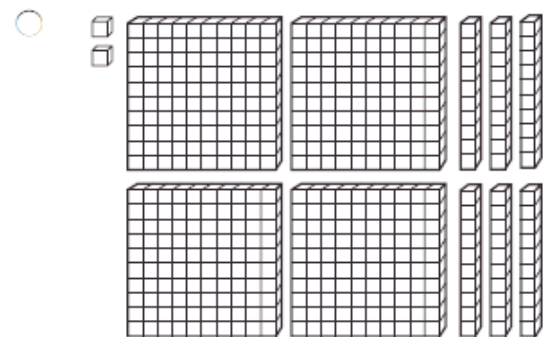
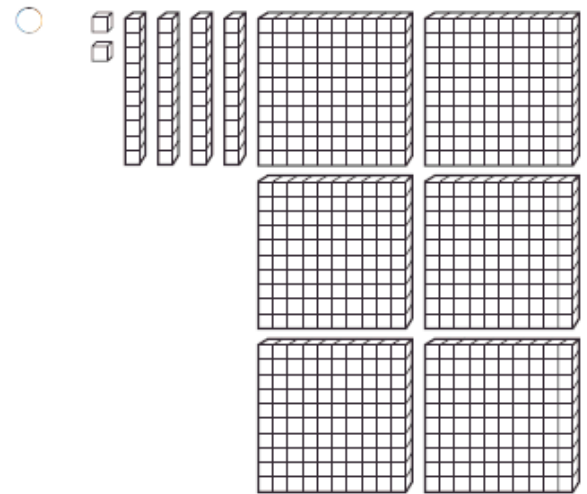
- 20** Susan has the coins below. She needs \$8.00 to buy a book.



Which of the following sets of coins does Susan need to make a total of \$8.00?



- 31** Which of the following represents the number 246?



GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Overall Expectation #2:

- Demonstrate an understanding of magnitude by counting forward and backwards by various numbers and from various starting points

Spring 2006

- 24** The number pattern below shows how Judy is counting aloud by 25s. She starts at 150 and counts by 25s.

150, 175, 200, 225, 250,

_____, _____

What will Judy's 7th number be?

- ☐ 250
- ☐ 275
- ☐ 300 *
- ☐ 325

Spring 2007

- 2** In the following number pattern, Celia is counting backward by 100s.

973, 873, 773, ____, ____

What will be the next two numbers in her pattern?

- ☐ 573, 473
- ☐ 673, 573
- ☐ 763, 753
- ☐ 772, 771

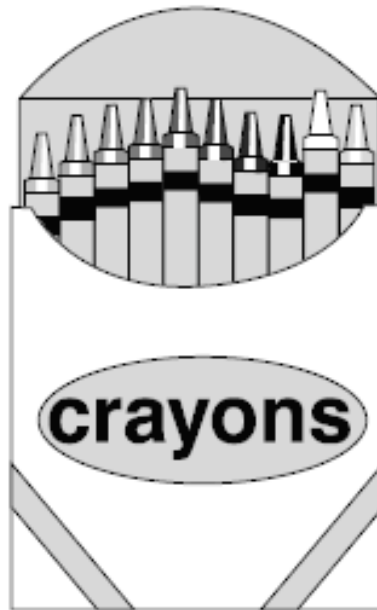
GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Spring 2008

2 Which set of numbers shows counting backward by 5?

- ☐ 710, 700, 690, 680
- ☐ 625, 630, 635, 640
- ☐ 525, 500, 475, 450
- ☐ 990, 985, 980, 975

30 Mrs. Swan has 8 full boxes of crayons and 5 loose crayons.



She starts by counting the 5 loose crayons and then adds in each full crayon box like this: 5, 15, 25, 35, . . .

How many crayons does she have in total?

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Spring 2009

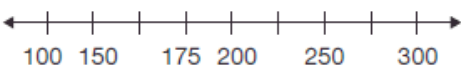
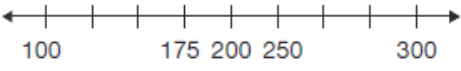

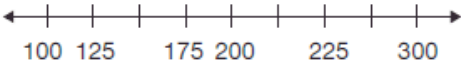
1 What are the missing numbers in the skip-counting pattern below?

800, 825, 850, 875, ____, ____, ____, 975

- ☐ 885, 895, 905
- ☐ 895, 900, 905
- ☐ 900, 925, 950
- ☐ 905, 930, 945

Spring 2010

3 Which number line is labelled correctly?

- ☐ 
- ☐ 
- ☐ 
- ☐ 

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9 Miro gives away the same number of stickers each day.

On Day 1 he has 98 stickers.

On Day 2 he has 93 stickers.

On what day will he have exactly 63 stickers?

Show your work.

Miro will have exactly 63 stickers on Day _____.

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Overall Expectation #3:

- Solve problems involving the addition and subtraction of single- and multi-digit whole numbers, using a variety of strategies, and demonstrate an understanding of multiplication and division

Spring 2006

3 Which of the following is another way to show 4×6 ?

- ☐ $4 + 4 + 4 + 4$
- ☐ $6 + 6 + 6 + 6$ *
- ☐ $4 \times 4 \times 4 \times 4$
- ☐ $6 \times 6 \times 6 \times 6$

17 Allan has 600 cards in his collection. Billy has 387 fewer cards in his collection than Allan.

How many cards does Billy have in his collection?

- ☐ 987
- ☐ 387
- ☐ 323
- ☐ 213 *

25 There are 28 students in Daniel's class. The list shows how all the students get to school each morning.

- 3 ride in cars.
- 4 walk.
- ? ride in buses.

What is the total number of students who ride in buses to get to school?

- ☐ 7
- ☐ 21 *
- ☐ 24
- ☐ 28

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

- 27** The students in Mr. David's class are creating art projects. The chart shows the number of supplies needed to complete 1 art project.

Mr. David needs to buy enough supplies for 7 art projects. Complete the chart to show the total number of each kind of supplies Mr. David will need to buy.

Art Project Materials

| Supplies | Number Needed for 1 Art Project | Total Number Needed for 7 Art Projects (Show and explain your work.) |
|-----------------|--|---|
| Googly Eyes | 2 | |
| Pipe Cleaners | 6 | |
| Paper Plates | 1 | |

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Spring 2007

- 3** Jorge buys a ball for \$1.15 and a skipping rope for \$2.95.



He pays for the items with the money pictured above. How much change should Jorge receive?

- ☐ \$0.90
- ☐ \$1.00
- ☐ \$1.10
- ☐ \$1.90

- 31** Anthony uses a mental strategy to solve the problem $48 + 37$. In Step 1, he groups his tens together. In Step 2, he groups his ones together, as shown below.

| Step 1 | Step 2 |
|--|--|
| $\begin{array}{r} 40 \\ + 30 \\ \hline 70 \end{array}$ | $\begin{array}{r} 8 \\ + 7 \\ \hline 15 \end{array}$ |

Which should be Anthony's next step to complete his strategy?

- ☐ $70 + 15$
- ☐ $70 + 37$
- ☐ $48 + 37$
- ☐ $48 + 15$

- 4** A group of 33 Grade 2 students and 48 Grade 3 students go to the zoo. What is the total number of students in the group?

- ☐ 71
- ☐ 80
- ☐ 81
- ☐ 91

5 $7 \times 6 = \square$

Which number can be placed in the box to make this number sentence true?

- ☐ 49
- ☐ 42
- ☐ 36
- ☐ 13

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

- 30** Steven earns \$5 for every bundle of newspapers he delivers. He wants to buy a game that costs \$18.

How many bundles of newspapers does Steven need to deliver to earn enough money to buy this game?


Spring 2008

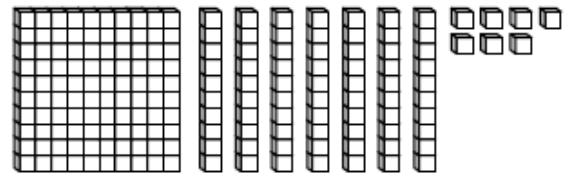
- 1** Erik has 24 stamps. What is one way to put his 24 stamps into equal groups?

- ☐ 3 groups of 6
- ☐ 4 groups of 4
- ☐ 5 groups of 6
- ☐ 6 groups of 4

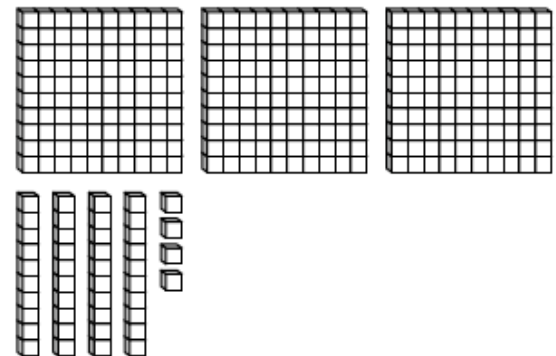
- 6** Ethan has 85 stamps in his collection. He gives away some of his stamps and has 67 stamps left. How many stamps does Ethan give away?

- ☐ 18
- ☐ 28
- ☐ 142
- ☐ 152

- 21** In the following models, each  represents 1.



Model 1



Model 2

What is the sum of the numbers represented by the models above?

- ☐ 411
- ☐ 421
- ☐ 511
- ☐ 521

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

32 Matthew has these coins in his pocket.



Matthew has some other coins in his desk. Which coins are in his desk if he has a total of \$5.80?

☐



☐



☐



☐



GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

- 9** Steven wants to buy a game that costs \$9.00. These are the coins he has saved.



He does not have enough money to buy the game. What other coins does Steven need to reach \$9.00?

Spring 2009

- 4** Susan and Danny are picking apples. Susan picks 274 apples and Danny picks 311.

How many more apples does Danny pick than Susan?

- ☐ 163
- ☐ 143
- ☐ 47
- ☐ 37

- 6** Marc receives \$5 a week for walking a dog.

He wants to buy a video game that costs \$42.

How many weeks will it take him to save enough money to buy the video game?

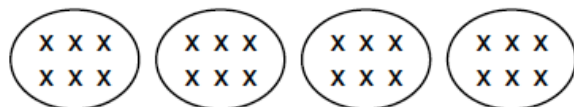
- ☐ 5
- ☐ 7
- ☐ 8
- ☐ 9

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

21 Samir spends \$7.25 at the store.
How much change should he receive
from \$10.00?

- ☐ \$2.25
- ☐ \$2.75
- ☐ \$3.25
- ☐ \$3.75

32 Which number sentence describes the
drawing below?



- ☐ $1 \times 24 = 24$
- ☐ $2 \times 12 = 24$
- ☐ $4 \times 6 = 24$
- ☐ $8 \times 3 = 24$

23 A Grade 3 class wins a pizza party for reading the most books in September.
There are 23 students in the class and each student will get 2 slices of pizza.
If each pizza has 6 slices, how many pizzas should the class buy?

Show your work.

The class should buy _____ pizzas.

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

Spring 2010

- 1** Which number completes the following number sentence?

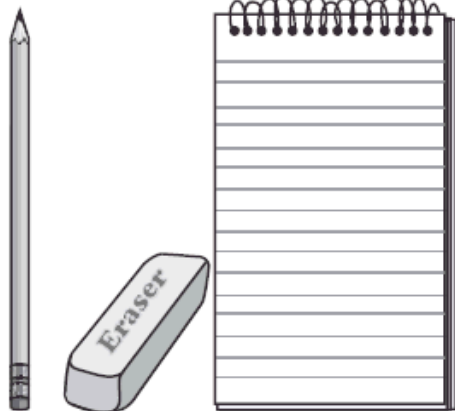
$$4 \times 6 = \square$$

- ☐ 10
- ☐ 20
- ☐ 24
- ☐ 28

- 4** An elementary school has a total of 635 students. There are 362 girls. How many boys are there?

- ☐ 273
- ☐ 333
- ☐ 373
- ☐ 997

- 6** Steve is buying the school supplies shown below.



13¢

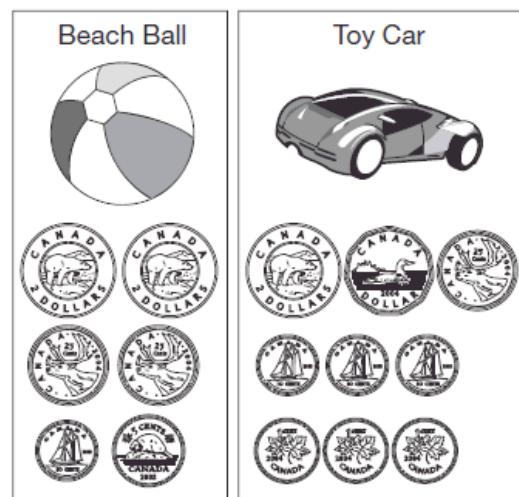
20¢

46¢

If Steve pays with a dollar, about how much change should he receive?

- ☐ 10¢
- ☐ 20¢
- ☐ 70¢
- ☐ 80¢

- 12** Emily spends the money shown below on a beach ball and a toy car.



How much does she spend on these two items?

- ☐ \$7.13
- ☐ \$8.23
- ☐ \$8.43
- ☐ \$9.23

GRADE THREE EQAO QUESTIONS: Number Sense & Numeration

26 Mr. MacDonald has 24 desks in his classroom.

Show 2 different ways he can arrange the desks into rows of equal length.

Write a division sentence for each way he can arrange the desks.

1

Division sentence: _____

2

Division sentence: _____